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| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
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| 10/661,507      | 09/15/2003  | Yoshihiro Nishizawa  | 107348-00362        | 7399             |

4372 7590 10/17/2005

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| EXAMINER |
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DILLON JR, JOSEPH A

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| ART UNIT | PAPER NUMBER |
|----------|--------------|

3651

DATE MAILED: 10/17/2005

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Serial No. : 10661507  
Applicant : Yoshihiro Nishizawa  
Filing Date : September 15, 2003  
Date Mailed : October 17, 2005

## ACKNOWLEDGEMENT OF REQUEST

### *Notice of Allowance/Allowability Mailed*

The request for a copy of the initialed PTO 1449, dated October 6, 2005, has been received by the U.S. Patent and Trademark Office.

- Requested copy attached

SUNDA M. ARCHER  
For the Office of Patent Publication

|  |  |                                   |                                 |
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| FORM PTO-1449  | U.S. DEPARTMENT OF COMMERCE<br>PATENT AND TRADEMARK OFFICE | ATTY. DOCKET NO.<br>107348-00362  | SERIAL NO.<br>CIP of 09/807,988 |
| LIST OF REFERENCES CITED BY APPLICANT<br><br>(Use several sheets if necessary) |  | APPLICANT<br>NISHIZAWA et al.     |                                 |
|  |  | FILING DATE<br>September 15, 2003 | GROUP<br>3651                   |

## U.S. PATENT DOCUMENTS

| EXAMINER<br>INITIAL |    | DOCUMENT<br>NO. | DATE    | NAME           | CLASS | SUB-<br>CLASS | FILING<br>DATE |
|---------------------|----|-----------------|---------|----------------|-------|---------------|----------------|
| JP                  | AA | 5,012,917       | 5/1991  | GILBERT et al. | 198   | 465.2         |                |
|                     | AB | 5,271,490       | 12/1993 | STICHT         | 198   | 465.2         |                |
|                     | AC |                 |         |                |       |               |                |
|                     | AD |                 |         |                |       |               |                |
|                     | AE |                 |         |                |       |               |                |
|                     | AF |                 |         |                |       |               |                |

## FOREIGN PATENT DOCUMENTS

|                 |    | DOCUMENT<br>NO. | DATE     | COUNTRY | CLASS | SUB-<br>CLASS | TRANSLATION |    |       |
|-----------------|----|-----------------|----------|---------|-------|---------------|-------------|----|-------|
|                 |    |                 |          |         |       |               | YES         | NO | PART. |
| Not<br>Supplied | AG | JP-A-61-81320   | 04/24/86 | Japan   |       |               |             | X  |       |
|                 | AH | JP-A-4-306162   | 10/28/92 | Japan   |       |               |             | X  |       |
|                 | AI | JP-A-10-217047  | 08/18/98 | Japan   |       |               |             | X  |       |
|                 | AJ | JP-A-10-166230  | 05/23/98 | Japan   |       |               |             | X  |       |
|                 | AK | JP-A-8-215944   | 08/27/96 | Japan   |       |               |             | X  |       |
|                 | AL | JP-82-4-57555   | 09/11/92 | Japan   |       |               |             | X  |       |

## OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, Etc.)

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|  | AM |  |
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|  | AO |  |

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| EXAMINER<br><br>[Signature]   | DATE CONSIDERED<br><br>10/13/04 |
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|  |  | FILING DATE<br>September 15, 2003 | GROUP<br>3551                   |

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|---------------------|----|-----------------|------|------|-------|---------------|----------------|
|                     | AA |                 |      |      |       |               |                |
|                     | AB |                 |      |      |       |               |                |
|                     | AC |                 |      |      |       |               |                |
|                     | AD |                 |      |      |       |               |                |
|                     | AE |                 |      |      |       |               |                |
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|  |    | DOCUMENT<br>NO.     | DATE               | COUNTRY                 | CLASS | SUB-<br>CLASS | TRANSLATION<br>YES NO PART. |  |  |
|--|----|---------------------|--------------------|-------------------------|-------|---------------|-----------------------------|--|--|
|  | AG | <del>58-71848</del> | <del>4/4/88</del>  | <del>JAPAN</del>        |       |               |                             |  |  |
|  | AH | <del>1354749</del>  | <del>11/1987</del> | <del>SOVIET UNION</del> |       |               |                             |  |  |
|  | AI | Not supplied        |                    |                         |       |               |                             |  |  |
|  | AJ |                     |                    |                         |       |               |                             |  |  |
|  | AK |                     |                    |                         |       |               |                             |  |  |
|  | AL |                     |                    |                         |       |               |                             |  |  |

## OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, Etc.)

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